

Price breakdown of new energy battery cabinets





Overview

As of February 2025, prices now dance between ¥9,000 for residential setups and ¥266,000+ for industrial beasts. What are utility-scale battery storage costs?

Overall, utility-scale battery storage costs are a composite of energy capacity-related costs (battery cells, BOS energy components) denoted mostly in \$/kWh, power capacity-related costs (inverters, transformers) in \$/kW, and fixed costs related to installation, infrastructure, and operations.

How much does a commercial lithium battery energy storage system cost?

In 2025, the typical cost of a commercial lithium battery energy storage system, which includes the battery, battery management system (BMS), inverter (PCS), and installation, is in the following range: \$280 - \$580 per kWh (installed cost), though of course this will vary from region to region depending on economic levels.

How much does energy storage cost?

Energy storage system costs for four-hour duration systems exceed \$300/kWh for the first time since 2017. Rising raw material prices, particularly for lithium and nickel, contribute to increased energy storage costs. Fixed operation and maintenance costs for battery systems are estimated at 2.5% of capital costs.

How much does a battery cost in 2025?

In 2025, you're looking at an average cost of about \$152 per kilowatt-hour (kWh) for lithium-ion battery packs, which represents a 7% increase since 2021. Energy storage systems (ESS) for four-hour durations exceed \$300/kWh, marking the first price hike since 2017, largely driven by escalating raw material costs and supply chain disruptions.



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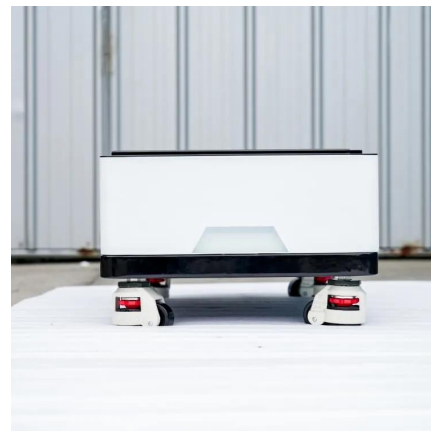
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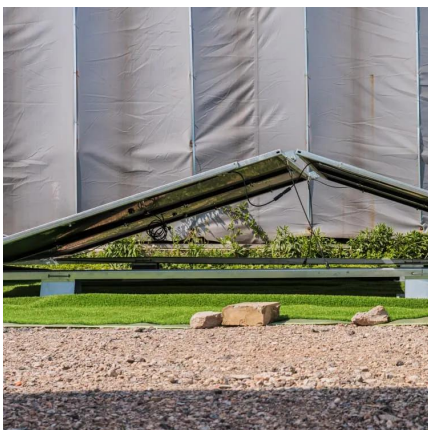
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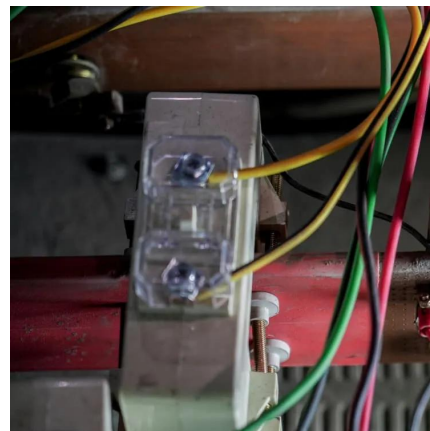


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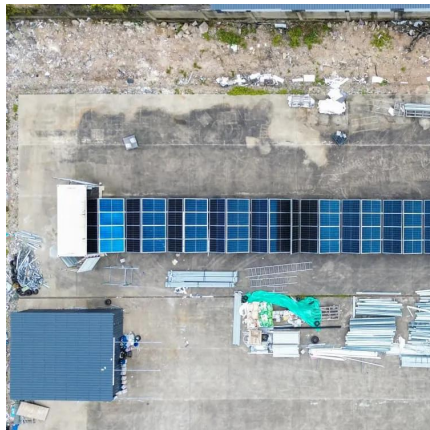
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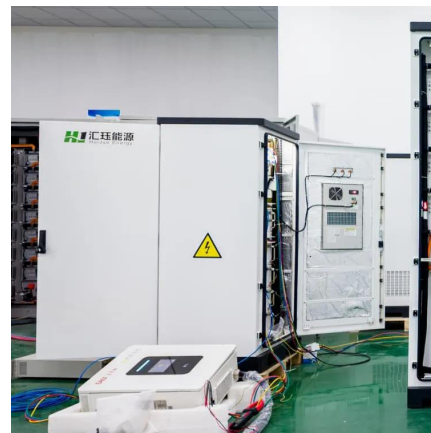


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